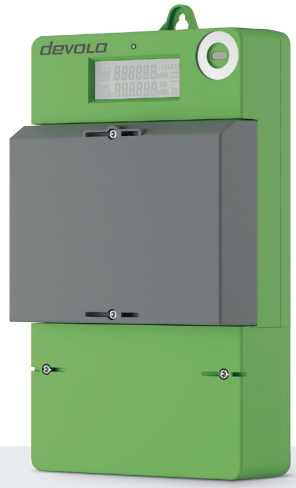
devolo three-phase electricity meter



Three-phase electricity meter for households and small businesses

The three-phase electricity meter is FNN-compliant and can be used as modern measuring equipment and in an intelligent measuring system.

§ **FNN-compliant.** SLP or grid basic meter in accordance with FNN specifications

Flexible. Can be used as modern measuring equipment (mME) and in an intelligent measuring system (iMsys).

Recorded. With the optionally equipped grid function, 12 parameters are recorded for determining the grid state.

Innovative. The integrated two-tariff terminal means that a two-rate tariff can be provided, even without smart meter gateway.

Integrated DIN rail. The complete smart metering infrastructure can be installed on the integrated DIN rail.

User-friendly. Visualisation of the current and past consumption values in 2-line LED display (in accordance with FNN specifications and the Metering Point Operation Act).

Accurate. Measurement in one or two energy flow directions (suitable for photovoltaic applications) in accordance with MID class B.

Installation and expansion. Simply connecting an SMGW turns the mME into an iMsys. A meter exchange is not required.

Harmonised. The interoperability and encrypted, BSI compliant data transmission between the devolo meter and the SMGW is ensured via the LMN interface.

Available. Quickly scalable production and efficient logistics guarantee reliable product availability.

Scenario

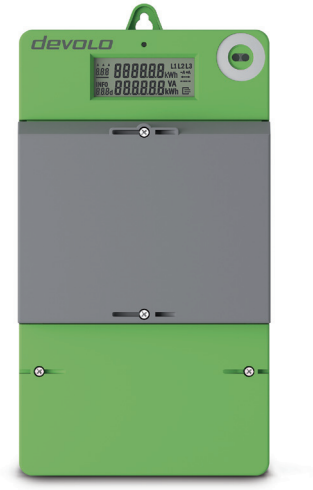
Versatile and flexible.
The devolo three-phase electricity meter is optionally equipped with grid function. A total of 12 different parameters are recorded, including voltage and current values, phase angles and values derived from them. These parameters are used for determining the grid state.

The integrated two tariff terminals let the energy provider offer customers a two tariffs („peak", „off-peak"), without needing the installation of an intelligent measuring system.

In addition, the three-phase electricity meter can be used as a component of the intelligent measuring system. The integrated DIN rail provides space for a smart meter gateway and a control box or the communications technology. Both options for using the devolo electricity meter reduce the complexity involved with procuring and installing the devices. This offers the measuring point operator the greatest possible flexibility.

Technical data

Type	2- and 4-wire active energy meter with direct connection
Interfaces	LMN: Cable-based, 2 pieces RS485 – bidirectional INFO – optically unidirectional Infrared test LED 10,000 Imp./kWh
Functional features and protocol	Available as SLP and grid variant, in accordance with FNN specifications version 1.4
Nominal voltage U_n	230 V, 3 x 230/400 V
Minimum current I_{min}	0.25 A
Reference current I_{ref}	5 A
Limiting current I_{max}	60 A
Nominal frequency	50 Hz
Accuracy class	MID class B
Energy measurement	Energy flow measurement (+A) with a non-return lock Energy flow measurement in two directions (+A/-A) Energy flow measurement of self-generated power, with a non-return lock (-A) Energy flow measurement of self-generated power, without a non-return lock (-A)
LCD display	FNN-compliant display, configurable via PIN code
Feature	Two tariff terminal, controllable via external terminals
Dimensions (in mm)	171 (width) x 323 (height) x 93 (depth)
Temperature (Storage and Operation)	-40 to +70 °C
Ambient conditions	Maximum 95% Humidity, non-condensing
Protection class	Insulation of the closed device: Protection class II / Safety class: IP51
Certifications	CE conformity, MID conformity, FNN precompliance for measuring systems, FNN guideline for the evaluation of the reliability of electricity meters



modern measuring equipment (mME)
devolo three-phase basic meter with three-point mounting

intelligent measuring system (iMsys)
devolo three-phase basic meter with three-point mounting with devolo SMGW^{plus}

44657/0118

We'll be glad to serve as your consultant.
Just contact us.

Phone: +49 241 182 79-150
smart@devolo.de
www.devolo.com/smart

devolo AG
Charlottenburger Allee 67, 52068 Aachen